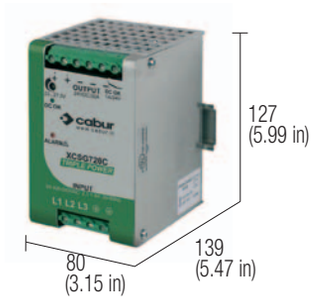
3-phase switching power supply 400-500 Vac output power 720 W

- 3-phase input 340...550 Vac or 2-phase with derating
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- High efficiency and low dissipated power
- Suitable for applications in SELV and PELV circuits
- Input protected by ASSIL circuit (Surge Suppressor and Inrush Limiter)



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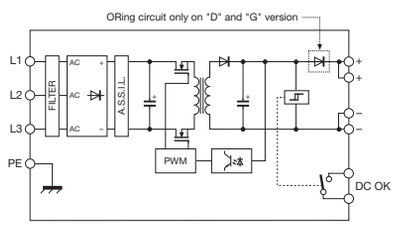
NOTES

The depth dimension includes the DIN rail clamp.
(1) Version available upon request; for information call our sales department, local agent or representative
(3) Over 50°C (122°F) apply a derating of about 6 W/°C
(4) For this peak current, the output voltage does not drop more than 10% of the nominal value, but the current value, provided by the power supply also depends on the total line resistance.

BLOCK DIAGRAM



Special version for DC motors

VERSIONS	Cod. XCSG720C			
Output 24 Vdc 30 A	**CSG720C**			
Output 12…15 Vdc 60 A		**(1)**		
Output 48 Vdc 15 A redundant version			**CSG720D**	
Output 72 Vdc 10 A redundant version				**(1)**
INPUT TECHNICAL DATA				
Input rated voltage	3x **400–500 Vac** (range 340…550 Vac)			
Frequency	47...63 Hz			
Current @ Iout max. (Uin 400 / 500 Vac)	1.4 A / 1.1 A			
Inrush peak current	< 30 A			
Power factor	> 0.75			
Internal protection fuse	—			
External protection on AC line	circuit breaker: 3x 10 A C characteristic - fuse: 3x T 10 A			
OUTPUT TECHNICAL DATA				
Output rated voltage	**24 Vdc**		**48 Vdc**	
Output adjustable range	24…28 Vdc		45…55 Vdc	
Continuous current	**30 A** @ 50°C (3)		**15 A** @ 50°C (3)	
Overload limit	45 A for >5 s with Uout >90% Un (4)		22.5 A for >5 s with Uout >90% Un (4)	
Short circuit peak current	>80 A for 1.5 s (4)		>45 A for 1.5 s (4)	
Load regulation	< 1%		< 1%	
Ripple @ nominal ratings	100 mVpp		100 mVpp	
Hold up time (Uin 400 / 500 Vac)	>10 ms / >15 ms		>10 ms / >15 ms	
Overload / short circuit protections	hiccup at the overload limit with auto reset / over temperature protection / ASSIL circuit			
Status display	"DC OK" green LED / "DC OK" alarm contact/ "Overload" red LED			
Alarm contact threshold	<21.6 Vdc		<43.2 Vdc	
Parallel connection	possible		possible	
Redundant parallel connection	possible with external ORing diode		factory provided with internal ORing diod	
GENERAL TECHNICAL DATA				
Efficiency (Uin 400 / 500 Vac)	>92% / >92%		>93% / >93%	
Dissipated power (Uin 400 / 500 Vac)	60 W / 60 W		55 W / 55 W	
Operating temperature range	–20...+60°C, with derating over 50°C / over temperature protection (3)			
Input/output isolation	3 kVac / 60 s SELV output			
Input/ground isolation	2 kVac / 60 s			
Output/ground isolation	0.5 kVac / 60 s			
Standard/approvals	EN50178, EN61558, EN60950, IEC950, UL508			
EMC Standards	EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11			
MTBF @ 25°C @ nominal ratings	>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F			
Overvoltage category/Pollution degree	II / 2			
Protection degree	IP 20 IEC 529, EN60529			
Connection terminal	6 mm² fixed screw type			
Housing material	aluminium			
Approx. weight	1.3 kg (45.86 oz)			
Mounting information	vertical on rail, allow 10 mm spacing between adjacent components			
MOUNTING ACCESSORIES				
Mounting rail type according to IEC60715/TH35-7.5	**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**			
Mounting rail type according to IEC60715/G32	—			